

**Notice of Allowability**

Application No.

10/617,171

Examiner

Tianjie Chen

Applicant(s)

JEONG, KI-TAG

Art Unit

2627

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to RCE filed on 03/05/2007.
2. ☒ The allowed claim(s) is/are 1-23.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)   | 5. <input type="checkbox"/> Notice of Informal Patent Application                                |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                              |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance             |
|  | 9. <input type="checkbox"/> Other _____  |

*Chen Tianjie*  
**TIANJIE CHEN**  
**PRIMARY EXAMINER**

**DETAILED ACTION**

***Continued Examination Under 37 CFR 1.114***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/05/2007 has been entered. Claims 1-23 are pending.

**EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Gregory W. Harper on 05/16/2007.

The application has been amended as follows:

- In claim 1, line 12; "on a distal end relative to a pivot hole of the arm" has been deleted.
- In claim 1, line 17; --on a distal end relative to a pivot hole of the arm-- has been inserted after "coil."
- In claim 5, line 12; "on a distal end relative to a pivot hole of the arm" has been deleted.
- In claim 5, line 19; --on a distal end relative to a pivot hole of the arm-- has been inserted after "coil."

Art Unit: 2627

- In claim 6, line 15; "on a distal end relative to a pivot hole of the arm" has been deleted.
- In claim 6, line 20; --on a distal end relative to a pivot hole of the arm-- has been inserted after "coil."
- In claim 10, line 15; "on a distal end relative to a pivot hole of the arm" has been deleted.
- In claim 10, line 21; --on a distal end relative to a pivot hole of the arm-- has been inserted after "coil."
- In claim 21, line 10; "on a distal end relative to a pivot hole of the arm" has been deleted.
- In claim 21, line 13; --on a distal end relative to a pivot hole of the arm-- has been inserted after "the effective portion."

***Reasons for Allowance***

3. The following is an examiner's statement of reasons for allowance:

- With regard to independent claims 1, 5, 6, 10, 11, 15, 16, and 20-22; as the closest reference of record, Takashima (US 6,787,941) cited a prior art in Figs. 8 and 10, which shows an actuator of hard disk drive, having a base plate and a voice coil motor, to move a magnetic head to record and reproduce data with respect to a disk to a predetermined position on the disk, including: a suspension supporting a slider, where the magnetic head is mounted; and an arm included on the base plate of the hard disk drive to pivot, an arm including the suspension at a leading end portion of the arm and a coil of the voice coil motor coupled to a rear end portion of the arm, a set of magnets arranged to be separated a predetermined distance from the

Art Unit: 2627

coil; wherein an area between the magnets is an area of the coil having an effective portion and an area outside of the magnets is an area of the coil having a non-effective portion, the coil is coupled to the rear end portion of the arm by an outer mold formed to encompass an outer circumference of the coil, an inner mold is formed inside the coil, and a connection mold connecting the outer mold and the inner mold is formed on at least part of a surface of the area of the coil having the non-effective portion and not on the area of the coil having the effective portion; wherein the connection mold is only formed on the outer circumference of the coil; **but fails to show** that the connection mold is formed on a distal end relative to a pivot hole of the arm.

- Applicant asserts "the present invention provides an actuator in which a connection mold that connects the outer mold and the inner mold with respect to the coil is formed to increase the coupling force between the arm and the coil of the actuator so that a dynamic characteristic of the actuator is improved" ([0015] in specification).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2627

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tianjie Chen whose telephone number is 571-272-7570. The examiner can normally be reached on 8:00-4:30, Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
**TIANJIE CHEN**  
**PRIMARY EXAMINER**